

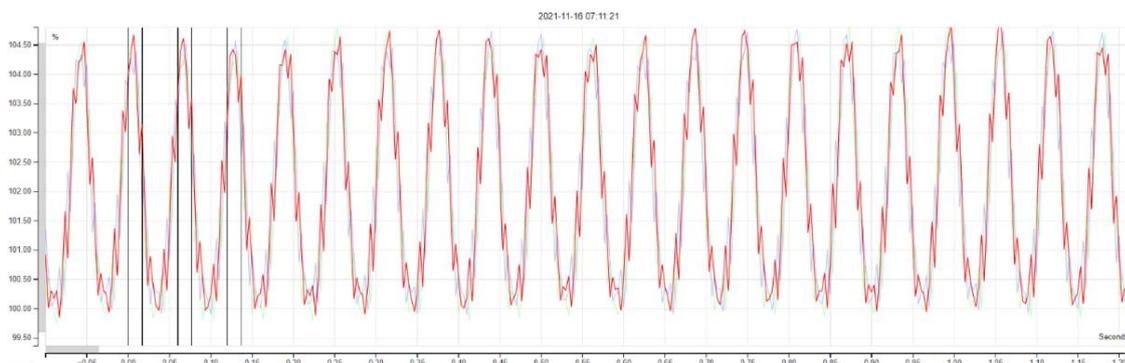
Intermittent Power System Oscillations Update – December 2021

AEMO has observed intermittent power system oscillations in the West Murray area (VIC/NSW) under a variety of conditions.

On 25 August 2021, AEMO held an industry briefing where we presented information regarding a number of instances of these oscillations.

It was requested at this briefing that AEMO publish some data for stakeholders to analyse. Data for eight events are available. These eight events provide diversity in terms of operating condition, magnitude, time and duration in the occurrence of this oscillation. A User-Guide which has some information on how to interpret this data is also available.

On 16th November 2021, oscillations with large magnitudes reaching 4 % peak-to-peak at Wemen terminal station were observed while a transformer was out of service. The measurements recorded by the CT-Labs¹ monitoring equipment installed at Wemen terminal station is shown below. AEMO has initiated a review of this incident under the clause of 4.8.15 of the National Electricity Rules.



As of 30 November 2021, the oscillations remain largely the same size in magnitude and duration with the root-cause remaining largely unknown.

AEMO is working closely with AusNet, Powercor and relevant participants to resolve the issue. AusNet have installed additional CT-Labs¹ monitoring equipment around Wemen area which is helping the investigation. AusNet and Powercor are working together to increase high resolution monitoring in the area.

¹ <https://ctlab.com/>